Listing of Claims

1. (Presently amended)

A process for fixed bed sweetening of petroleum distillates using a dichloro- or dibromo- cobalt or iron halogenated metal phthalocyanine as a catalyst which comprises impregnating the catalyst on an activated charcoal bed by circulating an alcoholic alkaline solution of the catalyst through said activated charcoal bed until a colourless solution is obtained in the effluent, thereby obtaining a catalyst impregnated charcoal bed, passing the petroleum distillate through said catalyst impregnated charcoal bed along with air or oxygen at a temperature in the range 20°C to 100°C at a pressure in the range 1 kg/cm² to 15 kg/cm² with a liquid hourly space velocity in the range 1 hr¹ to 15 hr¹ with continuous or intermittent injection of alkali solution of concentration in the range 0.5 - 20%, to obtain the desired low mercaptan level petroleum distillates

2. (Previously presented)

A process as claimed in claim 1, wherein the alcoholic alkaline solution used is selected from methanolic and ethanolic solution of sodium hydroxide.

3 (Presently amended)

A process as claimed in claim 1 wherein said halogenated metal phthalocyanine catalyst used is selected from dichloro cobalt phthalocyanine and dibromo cobalt phthalocyanine.

4. (Previously amended)

A process as claimed in claimed in claim1 wherein the concentration of catalyst used in the fixed bed is in the range 0.1 wt% to 1 wt% of activated charcoal.

5 (currently amended)

A process as claimed in claim 1, wherein the halogenated metal said dichloro- or dibromo- cobalt or iron halogenated metal phthalocyanine is prepared by treating the cobalt or iron phthalocyanine with a halogenating agent selected from the

	trichloride.
6 (Previously presented)	A process as claimed in claim 1, wherein the petroleum distillate used is selected from diesel, kerosine and FCC gasoline.
7 (Previously presented)	A process as claimed in claim 1 wherein the temperature is about in the range 20°C to 50°C.
8 (Previously presented)	A process as claimed in claim 1, wherein the pressure is about in the range 5 kg/cm ² - 8 kg/cm ² .
9 (Previously presented0	A process as claimed in claim 1, wherein the liquid hourly space velocity (LHSV) is about in the range 1hr ⁻¹ to 6hr ⁻¹ .
10 (Previously presented)	A process as claimed in claim 2, wherein <u>said</u> halogenated metal phthalocyanine catalyst used is selected from dichloro cobalt phthalocyanine and dibromo cobalt phthalocyanine.
11.(Previously presented)	A process as claimed in claim 2, wherein the concentration of catalyst used in the fixed bed is in the range 0.1 wt% to 1 wt% of activated charcoal.
12.(Previously presented)	A process as claimed in claim 3, wherein the concentration of catalyst used in the fixed bed is in the range 0.1 wt% to 1 wt% of activated charcoal.
13. (Currently amended)	A process as claimed in claim 2, wherein the halogenated metal said dichloro- or dibromo- cobalt or iron halogenated metal

group comprising chlorine, bromine, iodine, thionyl chloride,

sulphuryl chloride, phosphorus pentachloride, phosphorus

oxychloride, phosphorus pentabromide and phosphorus

phthalocyanine is prepared by treating the cobalt or iron phthalocyanine with a halogenating agent selected from the group comprising chlorine, bromine, iodine, thionyl chloride, sulphuryl chloride, phosphorus pentachloride, phosphorus oxychloride, phosphorus pentabromide and phosphorus trichloride.

14 (Currently amended)

A process as claimed in claim 3, wherein the halogenated metal said dichloro- or dibromo- cobalt or iron halogenated metal phthalocyanine is prepared by treating the cobalt or iron phthalocyanine with a halogenating agent selected from the group comprising chlorine, bromine, iodine, thionyl chloride, sulphuryl chloride, phosphorus pentachloride, phosphorus oxychloride, phosphorus pentabromide and phosphorus trichloride.

15 (Currently amended)

A process as claimed in claim 4, wherein the halogenated metal said dichloro- or dibromo- cobalt or iron halogenated metal phthalocyanine is prepared by treating the cobalt or iron phthalocyanine with a halogenating agent selected from the group comprising chlorine, bromine, iodine, thionyl chloride, sulphuryl chloride, phosphorus pentachloride, phosphorus oxychloride, phosphorus pentabromide and phosphorus trichloride.

16. (Previously presented)

A process as claimed in claim 2, wherein the petroleum distillate used is selected from diesel, kerosine and FCC gasoline.

17 (Previously presented)

A process as claimed in claim 2, wherein the petroleum distillate used is diesel.

	18 (Previously presented)	A process as claimed in claim 2, wherein the petroleum
-		distillate used is FCC gasoline.
	19 (Cancelled)	
	20 (Cancelled)	
	21 (Previously presented)	A process according to claim 1, wherein said injected alkali solution comprises sodium hydroxide.
	22 (New)	A process as claimed in claim 1 wherein said dichloro- or dibromo- cobalt or iron phthalocyanine is unsulfonated.
٠	23 (New)	A process as claimed in claim 1 wherein said dichloro- or dibromo- cobalt or iron phthalocyanine is insoluble in alkali or hydrocarbon during the sweetening process.
	•	